

3I810HW/BW

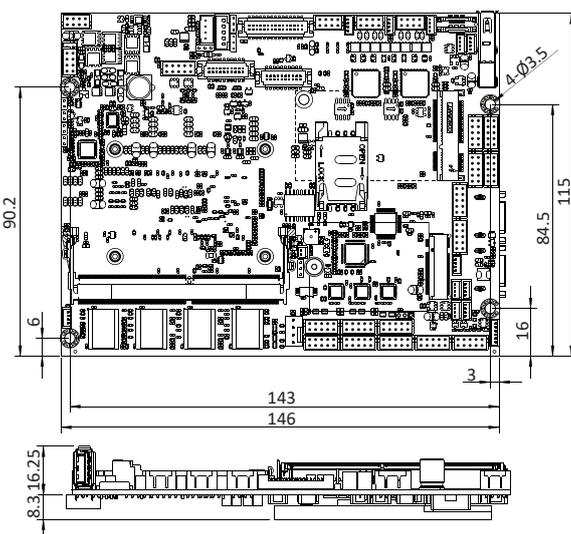
3.5" Plus SBC supports Intel® 8th Gen Whiskey Lake-U i7 / i5 / i3, Pentium / Celeron CPU, VGA, HDMI, LVDS, 3 x Intel Gb Ethernet, 1 x M.2 16DI / 16DO, 7 x USB, 6 x COM, 1 x Mini PCIe, 1 x SIM, SMBus, Battery Charger



Features:

- 8th Gen Intel® Whiskey Lake-U, i7 / i5 / i3 / Pentium / Celeron CPU
- 1 x DDR4 SODIMM (Max. 32GB) ; On board memory (OEM)
- Multiple Independent display: VGA, HDMI, LVDS
- 3 x Intel GbE LAN, 3 x USB 3.0, 4 x USB 2.0
- 6 x COM, 16DI / 16DO, 1 x Mini PCIe, 1 x SIM, SMBus
- 1 x M.2 B Key, TPM 2.0 (Optional)
- Battery Charger Function (3I810BW)

Dimensions: (Unit:mm)



Specifications :

- CPU
Intel® Whiskey Lake-U, i7 / i5 / i3 / Pentium / Celeron CPU
- MB Chipset
Intel® Whiskey Lake-U SoC
- Graphics
Intel® UHD Graphics, Support DirectX 12 & OpenGL 4.5
- System Memory
1 x DDR4 SODIMM (Max. 32GB) ; On board memory (OEM)
- Storage
2 x SATA ports 3.0 Data transfer rates up to 6.0 Gb/s (600 MB/s) (2nd SATA-OEM)
1 x M.2 B key Type 3042 / 2242 (PCIe x 2 / mSATA / USB 3.0 / USB 2.0)
1 x mini card socket for mSATA (Share SATA2)
- BIOS
AMI UEFI BIOS
- Display
1 x VGA, 1 x HDMI, Dual Channel, 48 bits LVDS
- Touch
USB touch screen controller
- TPM
TPM 2.0 (Option)
- LAN
1 x Intel GbE I219LM (internal)
2 x Intel 2.5 GbE I225-V (internal)
- Audio
High Definition Audio Specification, Support Line-out / Mic-in / Line-in
Two channel Class D Audio Amplifier
- Expansion Interface
1 x Full size Mini PCIe (PCIe / mSATA / USB 3.0 / USB 2.0)
1 x M.2 B key Type 3042 / 2242 (PCIe x 2 / mSATA / USB 3.0 / USB 2.0)
1 x SIM

Expansion Options

CN064	M.2 B key 2242 to M.2 E Key 2230, WiFi 6 + BT
CN067	M.2 B key 2242 to M.2 B Key 2252, 4G / 5G (3.7V by BOM Control)
CN059	USB to Line-out / Mic- in
CC007	USB to 4 port COM
CIO116G	SMBus to 8DI + 8DO
PW351	1 port PoE PSE
PW352	2 port PoE PSE
PW301	802.3AF / AT PD module
PW205	Wide Range power board (9~36V) with power Ignition on/off delay
PW206	12V / 24V DC to DC Redundant Power Board
PW022	Wide Range power board (24V / 48V)
DP001	eDP to VGA
eDP003	eDP to DVI
eDP004	eDP to HDMI
eDP001	eDP to LVDS (OEM)

- USB
1 x USB 3.0 (external), 2 x USB 3.0 (internal), 4 x USB 2.0 (internal)
- Serial IO
6 x RS232 / 422 / 485 (internal)
*COM1~COM6 pin9 5V / 12V (Option)
- GPIO
Hardware digital Input & Output, 16 x DI / 16 x DO
- SMBus
1 x SMBus
- WDT
Hardware Watch Dog Timer, 0~255 sec programmable
- Power Input
Wide Range +9~36V (3I810HW)
Battery Charger function, DC +19V or +24V (3I810BW)
- Dimension
3.5" Plus (146 x 115 mm) ; Weight: 135g
- Operation Temperature (100 % CPU Usage)
-20°C~70°C (Core i7 8665UE)
- Operation Humidity
5~95%, non-condensing
- Chassis (OEM I/O Expansion by request)
Waterproof System ; Waterproof PPC
- OS Support
Windows® 10 IOT ; Windows® 11 IOT (i7 CPU only)
Ubuntu 22.04 above, Fedora 36 above

Specification are subject to change without prior notice. ODM / OEM is available.